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19. Microscope according to claim 17, characterized in that the prism is configured as an Abbe prism.

20. Microscope according to claim 16, characterized in that the optical system (2) for image rotation is a mirror system.

21. Microscope according to claim 20, characterized in that the mirror system is a system with an odd number of mirrors.

22. Microscope according to claim 20, characterized in that the mirror system is configured as a K mirror.

23. Microscope according to claim 16, characterized in that the optical system (2) for image rotation is disposed between the tube lens (3) and objective (4).

24. Microscope according to claim 16, characterized in that the optical system (2) for image rotation is disposed after the ocular (5) or the scan lens (8).

25. Microscope according to claim 16, characterized in that the optical system (2) for image rotation serves to rotate all scanning and video images fed through a beam converging lens (7) into the microscope.

26. Microscope according to claim 16, characterized in that the beam converging lens (7) comprises fixed thick beam splitters to avoid interferences.

27. Microscope according to claim 16, characterized in that an adjusting device is provided for minimizing the beam offset during rotation.

28. ~~8~~ Microscope according to claim 16, characterized in that an axially movable objective or an axially movable objective turret is provided for the photographing of z-sections in any desired directional orientation.

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